

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0003948

Owner: Associated Electric Cooperative, Inc. (AECI)
Address: 2814 South Golden, Springfield, MO 65801

Continuing Authority: Same as above
Address: Same as above

Facility Name: AECI, Thomas Hill Energy Center-Mining Div. (Prairie Hill Mine)
Address: 4297 Highway F, Clifton Hill, MO 65244

Legal Description: See page 2

Receiving Stream: See page 2
First Classified Stream and ID: See page 2
USGS Basin & Sub-watershed No.: See page 2

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

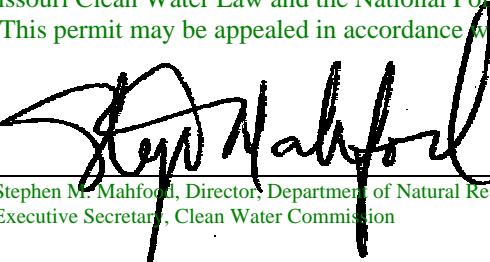
FACILITY DESCRIPTION

See page 3

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

January 9, 2004
Effective Date

January 8, 2009
Expiration Date
MO 780-0041 (10-93)


Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Jim Hull, Director of Staff, Clean Water Commission

LEGAL DESCRIPTION (continued)

Outfall #001 - NW $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 35, T55N, R16W, Randolph County

Outfall #002 - (**This outfall has been eliminated**) SW $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 35, T55N, R16W, Randolph County

Outfall #003 - SE $\frac{1}{4}$, Sec. 19, T55N, R15W, Randolph County

Outfall #015 and All Other Outfalls

All or part of Sections 6, 7, 8, 10, 15, 16, 17, and 22, T45N, R15W; all or part of Sections 2, 3, and 10, T54N, R16W; all or part of Section 19, 20, 30, and 31, T55N, R15W; all or part of Sections 24, 25, 34, 35, and 36, T55N, R16W, Randolph County; all or part of Sections 4, 5, 8, 9, 16, 17, T54N, R16W, Chariton County; all or part of Sections 19, 24, 25, 29, 33, 34, 35, and 36, T55N, R16W; all or part of Sections 2, 3, 4, 5, 6, 7, 8, 9, 10, 16, 17, 18, and 19, T54N, R15W; all or part of Sections 6, 7, 8, 9, 15, 16, 17, and 22, T54N, R15W; all or part of Sections 19, 20, 30, and 31, T55N, R15W; and all or part of Sections 1, 2, 11, 12, 13, 14, 23, and 24, T54N, R17W, Randolph and Chariton Counties

RECEIVING STREAM (continued)

Outfall #001

Receiving Stream: Tributary to Middle Fork Chariton River (U)
First Classified Stream and ID: Middle Fork Chariton River (P) (00691)
USGS Basin & Sub-watershed No.: (10280203-020001)

Outfall #002 (**This outfall has been eliminated**)

Receiving Stream: Tributary to Middle Fork Chariton River (U)
First Classified Stream and ID: Middle Fork Chariton River (P) (00691)
USGS Basin & Sub-watershed No.: (10280203-020001)

Outfall #003

Receiving Stream: Thomas Hill Lake (L2)
First Classified Stream and ID: Middle Fork Chariton River (P) (00691)
USGS Basin & Sub-watershed No.: (10280203-020001)

Outfall #015 and All Other Outfalls

Receiving Stream: Middle Fork Chariton River & East Fork L. Chariton River
First Classified Stream and ID: Middle Fork Chariton River (P) (00691)
USGS Basin & Sub-watershed No.: (10280203-020001)

FACILITY DESCRIPTION (continued)

Outfall #001 - Non Coal Mining/Office Complex - SIC #4911
Aerated lagoon/polishing cell/sludge is retained in lagoon.
Design population equivalent is 90.
Design flow is 22,000 gallons per day.
Design sludge production is 0.7 dry ton/year.

Outfall #002 - Coal Mine/Equipment Washbay - SIC #4911
Wastewater from equipment washbay.
(This outfall has been eliminated due to shop closure)

Outfall #003 - Non-Coal Mining/Sewage Lagoon at Coal Prep Plant - SIC #4911
Extended aeration/sludge to landfill.
Design population equivalent is 90.
Design flow is 2,500 gallons per day.
Actual flow is 872 gallons per day.
Design sludge production is 1.5 dry tons/year.

Outfall #015
Consists of rainfall runoff from the coal entrance road and railroad area and other plant site runoff. Discharge to Thomas Hill Reservoir is variable being dependent upon rainfall events.

All Other Outfalls - See Special Conditions #11 & 12
Settling ponds designed to hold and treat rainfall runoff from tributary areas equal to a 10-year, 24-hour rainfall event. Ponds which are not operated in series, coal preparation plant discharges and discharges resulting from the pumping pits or ponds shall be monitored separately as each is an individual treatment device which should meet the effluent limits without dilution from other sources. All discharges from the mine permit area are subject to this permit. Some of these ponds contain water that has contacted ash from ash burial areas.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 4 of 14	
					PERMIT NUMBER MO-0003948	
<p>The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:</p>						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u> Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		65	45	once/month	grab
Total Suspended Solids	mg/L		110	70	once/month	grab
pH - Units	SU	**		**	once/month	grab
<u>Outfall #002 - Eliminated</u>						
<u>Outfall #003</u> Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/month	24 hr. composite
Total Suspended Solids	mg/L		45	30	once/month	24 hr. composite
pH - Units	SU	***		***	once/month	grab
<p>MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u>; THE FIRST REPORT IS DUE <u>February 28, 2004</u>.</p>						
<u>Outfall #015</u> Flow	MGD	*		*	once/year	24 hr. estimate
Total Suspended Solids	mg/L	100			once/year	grab
pH - Units	SU	***		***	once/year	grab
<u>Ash Tonnage Buried for Entire Mine</u>						
Ash Tonnage Buried	tons				once/year	one year estimate
<p>MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u>; THE FIRST REPORT IS DUE <u>October 28, 2004</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.</p>						
B. STANDARD CONDITIONS						
<p>IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u>, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.</p>						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS	PAGE NUMBER 5 of 14
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The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Acid or Ferruginous Mine Drainage from "active mining area" outfalls</u> (Notes 1 & 2)						
Flow	MGD	*		*	once/week	24 hr. estimate
Precipitation*****	inches	**		**	**	
Iron, Total	mg/L	7.0		3.5	once/week	grab
Manganese, Total	mg/L	4.0		2.0	once/week	grab
Total Suspended Solids	mg/L	70		35	once/week	grab
Conductivity	umhos/cm	*		*	once/month	grab
Acidity	mg/L	Note 1		Note 1	Note 1	grab
Alkalinity	mg/L	Note 1		Note 1	Note 1	grab
Sulfate	mg/L	*		*	once/month	grab
pH - Units	SU	***		***	once/week	grab

Acid or Ferruginous Mine Drainage "post mining area" outfalls (Notes 1 & 2)

Flow	MGD	*		*	once/month	24 hr. estimate
Settleable Solids	mL/L/hr	0.5			once/month	grab
Conductivity	umhos/cm	*		*	once/month	grab
Sulfate	mg/L	*		*	once/quarter*****	grab
pH - Units	SU	***		***	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE April 28, 2004. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** All rainfall events shall be reported on quarterly monitoring reports. Rainfall shall be measured at the mine office.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0.
- **** Once per quarter in the months of March, June, September, and December.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

***** During precipitation events, limits are modified as follows:

- (a) All monitoring requirements remain in effect at all times, however any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within any 24-hour period less than or equal to the 2-year, 24-hour precipitation event (or snowmelt of equivalent volume) shall comply with the following limitations instead of otherwise applicable limitations.

<u>Pollutant or</u> <u>Pollutant property</u>	<u>Maximum</u>
Iron Total	7.0 mg/L (1 day)
Settleable Solids	0.5 mL/L (not to be exceeded)
<u>pH - Within the range of 6.0 to 9.0 at all times</u>	
This exemption does not apply to pumping of pits or ponds.	

- (b) All monitoring requirements remain in effect at all times, however any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation event (or snowmelt of equivalent volume) but less than or equal to the 10-year, 24-hour precipitation event (or snowmelt of equivalent volume) shall comply with the following limitations instead of otherwise applicable limitations.

<u>Pollutant or</u> <u>pollutant property</u>	<u>Maximum</u>
Settleable Solids	0.5 mL/L (not to be exceeded)
<u>pH - Within the range of 6.0 to 9.0 at all times</u>	
This exemption does not apply to pumping of pits or ponds.	

- (c) All monitoring requirements remain in effect at all times, however any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within any 24-hour period greater than 10-year, 24-hour precipitation event (or snowmelt of equivalent volume) shall comply with the following limitations instead of otherwise applicable limitations.

<u>Pollutant or</u> <u>pollutant property</u>	<u>Maximum</u>
<u>pH - Within the range of 6.0 to 9.0 at all times</u>	
This exemption does not apply to pumping of pits or ponds.	

- (d) Rainfall events are described by the US Weather Bureau in Technical Bulletin 40.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- Note 1 - a. The term "acid or ferruginous mine drainage" means mine drainage which, before any treatment, either has a pH of less than 6.0 or a total iron concentration equal to or greater than 10 mg/L.
- b. The term "alkaline, mine drainage" means mine drainage which, before any treatment, has a pH equal to or greater than 6.0 and total iron concentration of less than 10 mg/L.
- c. The term "coal refuse disposal pile" means any coal refuse deposited on the earth and intended as permanent disposal or long-term storage (greater than 180 days) of such material, but does not include coal refuse deposited within the active mining area or coal refuse never removed from the active mining area.
- d. Permittee shall monitor each NPDES pond or outfall location twice per year (second and fourth calendar quarters) for acidity and alkalinity. Where chemical treatment is being used, the sampling shall take place prior to the chemical treatment. Sampling results shall be reported on the regular Discharge Monitoring Reports (DMR's).
- e. Within 30 days of permit issuance, the permittee shall prepare and submit for Department concurrence a list of outfalls which contain acid (or ferruginous) mine drainage, those which contain alkaline mine drainage, and those which contain coal preparation plant discharges. The list shall be updated as necessary when submitting revised maps of the mining area.

Note 2 - Quantity of discharge area(s) may vary with mining activities. The permittee shall advise the Department of Natural Resources 60 days prior to the proposed addition of other discharge areas. The new discharge points will be added to this permit, by reference to the mining company's request. The new points of discharge shall be subject to all monitoring and reporting requirements effective on the date of the company's notification of their existence to the Missouri Department of Natural Resources. Maps of the mined area, showing active mining area discharges and post mining area discharges shall be furnished by January 28 of each year.

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Acid or Ferruginous Drainage from "coal preparation plants, coal preparation plant associated areas and coal refuse disposal piles" outfalls</u> (Notes 1 & 2)						
Flow	MGD	*		*	once/week	24 hr. estimate
Precipitation****	inches	**		**	**	
Iron, Total	mg/L	7.0		3.5	once/week	grab
Total Suspended Solids	mg/L	70		35	once/week	grab
Conductivity	umhos/cm	*		*	once/month	grab
Acidity	mg/L	Note 1		Note 1	Note 1	grab
Alkalinity	mg/L	Note 1		Note 1	Note 1	grab
Sulfate	mg/L	*		*	once/month	grab
pH - Units	SU	***		***	once/week	grab
Chemical Oxygen Demand	mg/L	*		*	once/month	grab
Oil and Grease	mg/L	15.0		10.0	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>April 28, 2004</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 & August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** All rainfall events shall be reported on quarterly monitoring reports. Rainfall shall be measured at the mine office.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0.
- **** During precipitation events effluent limits are modified as follows:
 - (a) All monitoring requirements remain in effect at all times, however any overflow, increase in volume of a discharge caused by precipitation within any 24-hour period greater than the 1-year, 24-hour precipitation event, but less than or equal to the 10-year, 24-hour precipitation event (or snowmelt of equivalent volume) may comply with the following limitations instead of otherwise applicable limitations.

Effluent Limitations During Precipitation

Pollutant or
pollutant property Maximum
 Settleable solids 0.5 mL/L (not to be exceeded)
pH - Within the range of 6.0 to 9.0 at all times
 This exemption does not apply to pumping of pits or ponds.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- (b) All monitoring requirements remain in effect at all times, however any overflow, increase in the volume of a discharge caused by precipitation within any 24-hour period greater than the 10-year, 24-hour precipitation event (or snowmelt of equivalent volume) may comply with the following limitations instead of otherwise applicable limitations.

Effluent Limitations During Precipitation

Pollutant or pollutant property	Maximum
pH - Within the range of 6.0 to 9.0 at all times	

This exemption does not apply to pumping of pits or ponds.

- (c) Rainfall events are described by the U.S. Weather Bureau in Technical Bulletin 40.

Note 1 - a. The term "acid or ferruginous mine drainage" means mine drainage which, before any treatment, either has a pH of less than 6.0 or a total iron concentration equal to or greater than 10 mg/L.

b. The term "alkaline mine drainage" means mine drainage which, before any treatment, has a pH equal to or greater than 6.0 and total iron concentration of less than 10 mg/L.

c. The term "coal refuse disposal pile" means any coal refuse deposited on the earth and intended as permanent disposal or long-term storage (greater than 180 days) of such material, but does not include coal refuse deposited within the active mining area or coal refuse never removed from the active mining area.

d. Permittee shall monitor each NPDES pond or outfall location twice per year (second and fourth calendar quarters) for acidity and alkalinity. Where chemical treatment is being used, the sampling shall take place prior to the chemical treatment. Sampling results shall be reported on the regular Discharge Monitoring Reports (DMR's).

e. Within 30 days of permit issuance, the permittee shall prepare and submit for Department concurrence a list of outfalls which contain acid (or ferruginous) mine drainage, those which contain alkaline mine drainage, and those which contain coal preparation plant discharges. The list shall be updated as necessary when submitting revised maps of the mining area.

Note 2 - Quantity of discharge area(s) may vary with mining activities. The permittee shall advise the Department of Natural Resources 60 days prior to the proposed addition of other discharge areas. The new discharge points will be added to this permit, by reference to the mining company's request. The new points of discharge shall be subject to all monitoring and reporting requirements effective on the date of the company's notification of their existence to the Missouri Department of Natural Resources. Maps of the mined area, showing active mining area discharges and post mining area discharges shall be furnished by January 28 of each year.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- (b) All monitoring requirements remain in effect at all times, however any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within any 24-hour period greater than 10-year, 24-hour precipitation event (or snowmelt of equivalent volume) shall comply with the following limitations instead of otherwise applicable limitations.

Effluent Limitations During Precipitation

Pollutant or	
<u>pollutant property</u>	<u>Maximum</u>
pH - Within the range of 6.0 to 9.0 at all times	

This exemption does not apply to pumping of pits or ponds.

- (c) Rainfall events are described by the US Weather Bureau in Technical Bulletin 40.

**** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0.

***** Sample once per quarter in the months of March, June, September, and December.

- Note 1 - a. The term "acid or ferruginous mine drainage" means mine drainage which, before any treatment, either has a pH of less than 6.0 or a total iron concentration equal to or greater than 10 mg/L.
- b. The term "alkaline mine drainage" means mine drainage which, before any treatment, has a pH equal to or greater than 6.0 and total iron concentration of less than 10 mg/L.
- c. The term "coal refuse disposal pile" means any coal refuse deposited on the earth and intended as permanent disposal or long-term storage (greater than 180 days) of such material, but does not include coal refuse deposited within the active mining area or coal refuse never removed from the active mining area.
- d. Permittee shall monitor each NPDES pond or outfall location twice per year (second and fourth calendar quarters) for acidity and alkalinity. Where chemical treatment is being used, the sampling shall take place prior to the chemical treatment. Sampling results shall be reported on the regular Discharge Monitoring Reports (DMR's).
- e. Within 30 days of permit issuance, the permittee shall prepare and submit for Department concurrence a list of outfalls which contain acid (or ferruginous) mine drainage, those which contain alkaline mine drainage, and those which contain coal preparation plant discharges. The list shall be updated as necessary when submitting revised maps of the mining area.

Note 2 - Quantity of discharge area(s) may vary with mining activities. The permittee shall advise the Department of Natural Resources 60 days prior to the proposed addition of other discharge areas. The new discharge points will be added to this permit, by reference to the mining company's request. The new points of discharge shall be subject to all monitoring and reporting requirements effective on the date of the company's notification of their existence to the Missouri Department of Natural Resources. Maps of the mined areas, showing active mining area discharges and post mining area discharges shall be furnished by January 28 of each year.

					PERMIT NUMBER MO-0003948	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Entire Permit Area Ash tonnage buried or disposed of for entire area covered by this permit.					once/year in January	yearly estimate
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2004</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

C. SPECIAL CONDITIONS

1. Special Definitions

- The term "active mining area" means the areas, on and beneath land, used or disturbed in activity related to the extraction, removal, or recovery of coal from its natural deposits.
- The term "post mining area" means the surface area of a coal mine which has been returned to required contour and on which revegetation (specifically, seeding or planting) work has commenced.

2. Amendment to Standard Conditions:

Section A.1-B. is amended to read as follows: Monitoring results shall be recorded and reported on forms provided by the Department, postmarked no later than the 28th day of the month following the completed reporting period. Signed copies of these and all other reports required herein, shall be submitted to the following address:

Department of Natural Resources
Land Reclamation Program
P.O. Box 176
Jefferson City, MO 65102

Department of Natural Resources
Northeast Regional Office
1709 Prospect Drive
Macon, MO 63552-2602

The monitoring reports shall be submitted to the Water Pollution Control Program and the Land Reclamation Program no later than the 28th day of the month following the completion of the reporting period.

- All outfalls must be clearly marked in the field.
- Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
- Report as no-discharge when a discharge does not occur during the report period.
- Samples shall be representative of monitoring period discharges and if any discharge occurs during the monitoring period at least one sample per outfall must be collected and analyzed. ("No Discharge" shall be used only to indicate no releases during the entire reporting period).

C. SPECIAL CONDITIONS (continued)

7. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

8. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
9. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
- (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
 - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids from the lagoon. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.
10. Acid or Ferruginous Drainage from coal preparation plants, coal preparation plant associated areas and coal refuse disposal piles basin G025 sedimentation pond for 79-acres watershed/storm water runoff, shall sample for total petroleum hydrocarbon once per month with the monitoring reports being submitted on a quarterly bases. Monitoring reports for January - March will be due by the following April 28, monitoring reports for April - June will be due by the following July 28, monitoring reports for July - September will be due by the following October 28, and monitoring reports for October - December are due by the following January 28. The total petroleum hydrocarbon pollutant is introduced to the basin through the fire fighting training school activities.

C. SPECIAL CONDITIONS (continued)

11. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
12. If fly ash is allowed to be buried, permittee shall conduct special sampling during and after acceptance of flyash or other power plant wastes. An annual sample from each impoundment or pit potentially impacted by such waste disposal activities will be collected and analyzed for the following:

Arsenic, total recoverable	Barium, total recoverable
Antimony, total recoverable	Zinc, total recoverable
Boron, total recoverable	Aluminum, total recoverable
Cadmium, total recoverable	Mercury, total recoverable
Chromium, total recoverable	Selenium, total recoverable
Conductivity	Sulfate, as SO ₄
Iron, total recoverable	Thallium, Total Recoverable
Lead, total recoverable	pH
Manganese, total recoverable	Silver, total recoverable
Total Suspended Solids	

This special condition does not waive MDNR - Solid Waste Management Program Regulations, nor does it waive notification to the WPCP that ash is being accepted. Additionally, once per year, in January, a tonnage report must be submitted declaring the tonnage of ash that was buried.